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Oct 14, 1997

DERWENT-ACC-NO: 1997-554023

DERWENT-WEEK: 199936

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TITLE: Invertible thermal information type multilayer body e.g. for toy, doll, handicraft and ornamental components - maintains reversible enantitropic between three states of normal, low and high temperatures

INVENTOR: YASUDA, M

PATENT-ASSIGNEE:

ASSIGNEE

CODE

PILOT INK CO LTD

PILO

PRIORITY-DATA: 1996JP-0103503 (March 29, 1996)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---------------------|------------------|----------|-------|------------|
| JP 09267422 A | October 14, 1997 | | 014 | B32B007/02 |
| <u>US 5928803 A</u> | July 27, 1999 | | 000 | B41M003/12 |

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|--------------|----------------|----------------|------------|
| JP 09267422A | March 29, 1996 | 1996JP-0103503 | |
| US 5928803A | March 28, 1997 | 1997US-0827254 | |

INT-CL (IPC): A63 H 33/22; B32 B 7/02; B32 B 27/08; B41 M 3/12

ABSTRACTED-PUB-NO: JP 09267422A

BASIC-ABSTRACT:

The body (1) has a pair of resin layers (2A,2B) with different rates of heat expansion. Deformation displacement is done at the front and back sides by temperature variation. Reversible enantitropic is maintained at normal temperature, low temperature shrunk shape and high temperature swelled shape.

USE - In e.g. thermostatic switch, various industrial components.

ADVANTAGE - Enables easy tuning of colour variation. Formulates arbitrary shape of multilayered body.

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US 5928803A

EQUIVALENT-ABSTRACTS:

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CHOSEN-DRAWING: Dwg.1/19

TITLE-TERMS: INVERT THERMAL INFORMATION TYPE MULTILAYER BODY TOY DOLL HANDICRAFT
ORNAMENT COMPONENT MAINTAIN REVERSE THREE STATE NORMAL LOW HIGH TEMPERATURE

DERWENT-CLASS: P36 P73 P75

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1997-461585